Name:

*Ms. Estrada, Mr. Bielmeier, Mr. Tiénou-Gustafson*

Geometry, Period

Due Date: Fri, 5 Sep 2014

**Geometry**

**Homework**



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| **1) Write an equation of the line with the given slope and *y*-intercept in SLOPE- INTERCEPT form.**  a) slope: 3; *y*-intercept: 8 b) slope: 11; *y*-intercept: 2 c) slope: –4; *y*-intercept: 5 |
| **2) Write an equation of the line shown.**  a) b) c)  Y-intercept: \_\_\_\_\_\_ Y-intercept: \_\_\_\_\_\_ Y-intercept: \_\_\_\_\_\_  Slope: \_\_\_\_\_\_ Slope: \_\_\_\_\_\_ Slope: \_\_\_\_\_\_  Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Equation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **3) Draw the line shown in the equation.**  a) ***y = 3x - 1*** b)c) |

**4) Convert to slope-intercept form.**

a) **y − 4 = −3(x − 2)** b) **3x + 7y = 21** c)

**Word Problems**

5a) A bike rental shop charges $8 to rent a bike, plus $1.5 per hour you ride. Write an equation in slope-intercept form to model the total amount of money you spend, y, in terms of the number of hours you ride, x.



5b) Then represent this line on the graph to the right.

5c) How much would it cost to ride the bike for 5 hours?

6a) The cost of a school banquet is $95 plus $15 for each person attending. Write an equation that gives total cost as a function of the number of people attending.

6b) What is the cost for 77 people?

6c) Explain the equation you wrote in terms of how it relates to a line in slope-intercept form.

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| **EPAS PREP** |

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| 3) The value of x that will make x + 4 =  a true statement lies between what two numbers?   1. -1 and -3 2. -3 and -4 3. 0 and 5 4. 6 and 8 | 4) Simplify the following algebraic expression. |
| As your summer job, you deliver jugs of water to office buildings. Over the last seven days, you delivered: 16, 15, 17, 18, 14, 9, and 16 jugs of water. What was your average number of jugs  delivered over the last seven days?  A) 13.5  B) 15  C) 16  D) 52.5  E) 105 | Michelle deposits $1200 in a savings account with a 6% interest rate per year. How much simple interest will she have earned after three years?    A. $1,416  B. $1,396  C. $216  D. $196  E. none of the above |